IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

•	IN RE APPLICATION OF:	Ryoichi OHARA, et a

New U.S. PCT Application Based on PCTJP06/305070 SERIAL NO:

GAU:

FILED:

Herewith

FOR: THIN-FILM PIEZOELECTRIC RESONATOR AND FILTER CIRCUIT

EXAMINER:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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SHEET 1 OF 1

Form PTO 1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE			ATTY DOCKET NO.		SERVINO DO 1 U DU New U.S. PCT Application					
(291682US2RD PCT		Based on PCTJP06/305070				
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT						
				Ryoichi OHARA, et al.						
			FILING DATE		GROUP					
				Herewith						
				U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	S SUB FILING DATE IF APPROPRIATE				
	AA	2005-142888	06/30/05	EBUCHI et al.		<u> </u>	<u> </u>			
	AB	6 384 697	05/07/02	RUBY	<u> </u>					
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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO					
	AO									
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	AS									
	AT									
	AU									
	AV									
		OTHER R	EFERENCES (Including Author, Title, Date, Pertine	ent Pages, e	tc.)				
	AW	LAKIN, K. M. et al., " 1.0-GHz thin-film bulk acoustic wave resonators on GaAs", Appl. Phys. Letter, Vol. 43, No. 8, Pages 750 - 751, 1983.								
	AX									
	AY									
	AZ				Additional References sheet(s) attached					
Examiner					Date Cor	Pate Considered				
				t citation is in conformance with MPEP with next communication to applicant.		ne through	citation	if not in		

New U.S. PCT Application Based on PCT/JP06/305070 Ryoichi OHARA, et al. Docket No. 291682 US

STATEMENT OF RELEVANCY

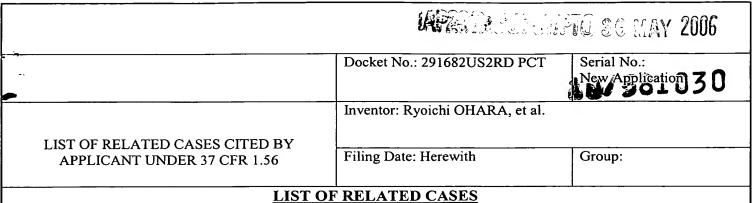
- 1) References have been cited in the International Search Report. A copy of these references is being submitted herewith.
- 2) References have been cited in the corresponding Search Report. A copy of these references is being submitted herewith.
- 3) References AB & AW are discussed in the specification. A copy of these references is being submitted herewith.
- 4) References are additional prior art known to Applicant. A copy of these references is being submitted herewith.

AB: 6,384,697

Technologies of FBAR using a bottom electrode which has edges extending beyond each boundary of cavity are disclosed.

AW: LAKIN, K. M. et al., "1.0-GHz thin-film bulk acoustic wave resonators on GaAs", Appl. Phys. Letter, Vol. 43, No. 8, Pages 750 - 751, 1983.

Technologies of FBAR using a bottom electrode which has edges extending beyond each boundary of cavity are disclosed.



Examino <u>Initial</u>	Docket No.	Serial or <u>Patent</u> <u>Number</u>	Filing or Issue Date	Patent App. <u>Publication</u> <u>No.</u>	Inventor or Applicant	
	256032US2	10/890,989	07/15/04	2005-142888	EBUCHI, et al.	
	287666US2RD	11/376,266	03/16/06		YANASE, et al.	

Examiner

Date Considered